



# City of Highland

## Application for Excavation Permit on Public Property

### Highland Code Chapter 62 Article II

Location of Excavation: \_\_\_\_\_  
(Provide Site Address)

Time Period: \_\_\_\_\_  
(Approved by City)

Reason for Excavation: \_\_\_\_\_

Size of Excavation: \_\_\_\_\_  
(use back of this sheet to sketch the excavation area)

**Conditions of Permit:**

Place a check in each box that is satisfied

- Prior to excavation permit issuance the applicant must provide evidence, in writing, of worker's compensation of \$500,000 per claim, comprehensive general \$1,000,000 per accident for bodily injury, not less than \$1,000,000 each accident for property damage liability, and minimum \$500,000 professional liability.
- Permit fee paid (see back for calculation of fees).

The project will be completed in compliance with the time period provided as a condition of the permit.  
 Permit application must be made 24 hours prior to excavation with the exception of an emergency.  
 The permit holder shall notify the Police Department (618) 654-2131 prior to any partial or full street closure.  
 Any excavation that must remain open overnight shall be covered and barricaded.  
 Barricades provided by Contractor  
 All permit holders shall notify J.U.L.I.E. prior to excavation (800) 892-0123.  
 All work shall be in accordance with applicable O.S.H.A. regulations.

**Violation and Penalty**

Violation of the city ordinance shall be punishable by a fine of not less than \$100.00.

\_\_\_\_\_  
 Individual or Company

\_\_\_\_\_  
 Street Address

\_\_\_\_\_  
 City, State Zip

\_\_\_\_\_  
 Phone Number

\_\_\_\_\_  
 Signature

\_\_\_\_\_  
 Permit Fee Amount

Fee Paid - Cash \_\_\_\_\_  
 Fee Paid - Check # \_\_\_\_\_

\_\_\_\_\_  
 Date Permit Issued

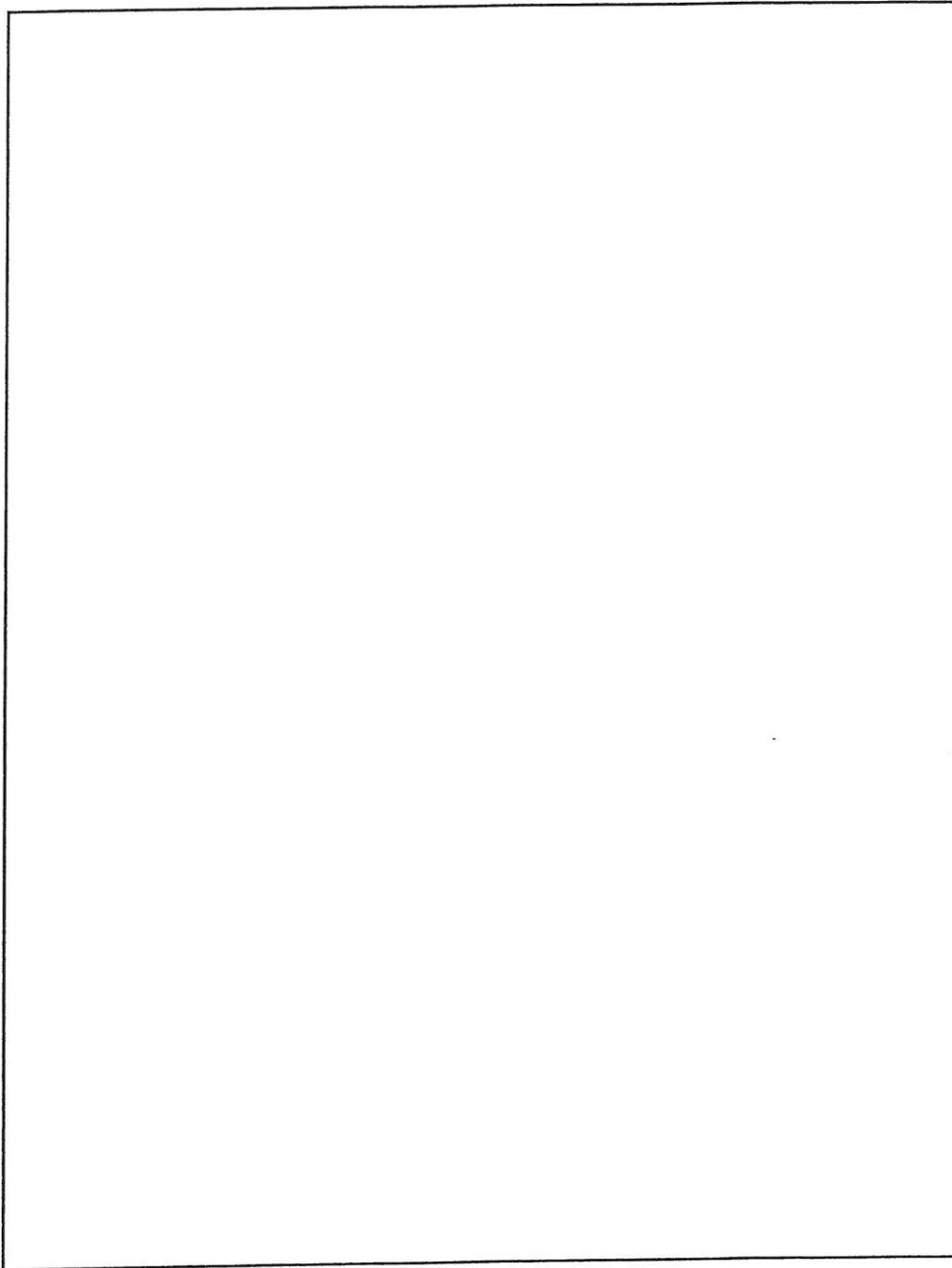
\_\_\_\_\_  
 Permit Expires

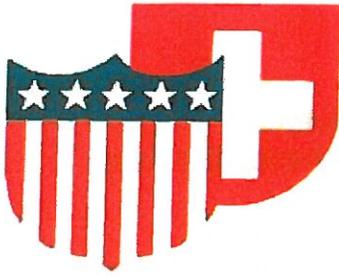
\_\_\_\_\_  
 Approved By

Permit Fees

Excavation.....	\$20 Flat Fee
Excavations under paved streets, gutters or waterways.....	\$20 Per Square Yard
Excavations under sidewalks.....	\$10 Per Square Yard

Sketch of Excavation





# City of Highland

DEPARTMENT OF ECONOMIC AND  
COMMUNITY DEVELOPMENT  
BUILDING AND ZONING DIVISION  
PUBLIC WORKS DEPARTMENT

## CITY OF HIGHLAND SEWER LINE REPAIR MATERIAL REQUIREMENTS

**TYPE OF PIPE** – Gasketed SDR26 - ASTM 3034 Rating - SCHEDULE 40 Solid Core Pipe

**CLEAN OUT** - MINIMUM one in line clean out using bi-directional Tee. Clean out pipe extending above ground must have a water tight cap.

**¾" CLEAN ROCK** – Pipe must be embedded in MINIMUM of 6" of ¾" clean rock. Inspected by Water & Sewer personnel and then covered with 6" of ¾" clean rock. **PIPE MUST BE INSPECTED BY WATER & SEWER DEPARTMENT PERSONNEL PRIOR TO BACKFILL.** Call 654-6823 to schedule inspections.

**BENDS** – 90 degree bends may only be made with 45 degree elbows

**COUPLINGS / FITTINGS** – Fernco 1000 RC Series and 5000 RC Series couplings will be utilized. For fittings requiring replacement on the City main the Contractor shall contact the Public Works Dept (654-6823) for further directions.

### Additional Information :

#### Excavation, Sewer & Water, Drive Approach, Sidewalk, and Roadway (In City Right-of-Way)

1. Complete Contractor Registration Application 24 hours prior to excavation (one-time application only)
2. Complete Contractor Registration Application (annual registration)

2610 Plaza Drive - P.O. Box 218 Highland, Illinois 62249-0218  
Phone (618) 654-7115 Fax (618) 654-5570 [www.highlandil.gov](http://www.highlandil.gov)

3. Provide copy of Plumbing Contractors Registration (PCR). (For Sewer & Water Contractors)
4. Contractor supplies properly lighted barricades and **notifies Highland Police Dept (618-654-2131)** of any road/alley closure
5. Contractor follows all OSHA Safety Standards dealing with Excavations
6. Contractor properly disposes of all spoils. **At no time shall the spoils be placed on a Public Street or Alleyway**
7. Follow all requirements per Article II Section 62 of the City of Highland Municipal Code of Ordinances.
8. Permit holder shall notify J.U.L.I.E 48 hours prior to excavation (800) 892-0123.

Contact the Public Works Department at 654-6823 or the Building & Zoning Department at 654-7115 with any questions.

2/13/15 slw

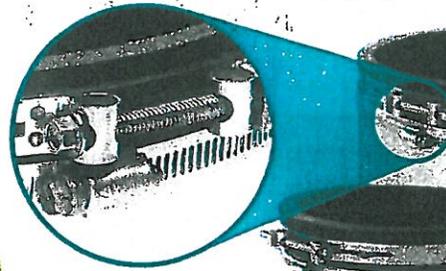
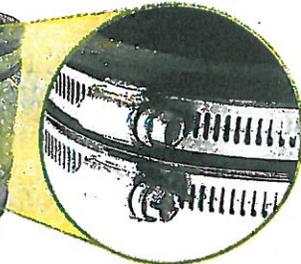


# 1000 RC Series & 5000 RC Series Couplings

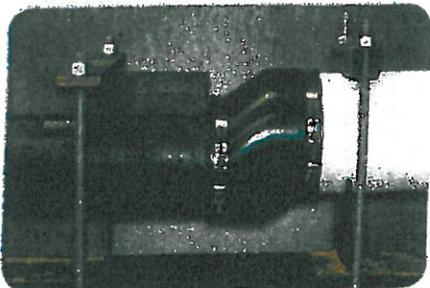
The Ultimate Repair Couplings - Engineered for resistance to heavy earth loads and shear forces, while providing improved pipe alignment.



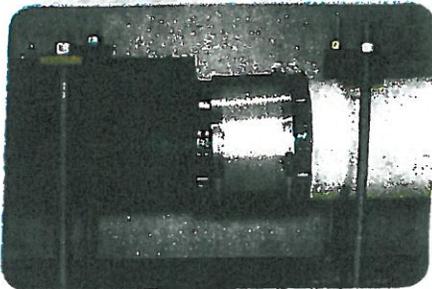
**1000 RC Series**  
301 series stainless steel  
worm gear clamps



**5000 RC Series**  
316 series stainless steel  
nut & bolt clamps



Shear Resistance Test using an unshielded sewer coupling per ASTM C 1173 (applied load 50 pounds per nominal inch of pipe diameter)



Shear Resistance Test using a Fernco Repair Coupling per ASTM C 1173 (applied load 50 pounds per nominal inch of pipe diameter)

**Ultimate Shear Resistance** - .012" (12mil) 300 series stainless steel shear ring is the heaviest the industry offers with excellent resistance to corrosion.

**Ultimate Pipe Alignment** - Due to the thickness and strength of the Strong Back RC Series shear ring, you are assured consistent pipe alignment against shear forces from soil compaction, shifting and settling, and improper backfill.

**Ultimate Sealing Clamps** - Fernco's 1000 RC Series Couplings come with 301 series stainless steel worm gear clamps. The 5000 RC Series Couplings come with 316 series stainless steel nut and bolt clamps. Both offer great corrosion resistance.

**Ultimate Sealing Gasket** - The flexible PVC gasket has a smooth inside surface providing greater sealing performance than ribbed rubber gaskets. The smooth internal wall of the gasket makes contact 360° over its entire length. This equates to a larger sealing surface and a higher coefficient of friction, providing maximum sealing capabilities as well as preventing slippage under the weight of shear forces. The gaskets have excellent resistance to sewer gas, common household chemicals found in the sewer system, as well as dry rot, fungus growth, ozone and UV. When properly installed Strong Back RC series gaskets will provide decades of problem free service.

**Ultimate Transition Connections** - When making transition connections of differing pipe sizes or materials, the Strong Back RC Series gasket features a one piece molded-in bushing. \*Designated part numbers come with an insert bushing.

**Ultimate Versatility** - Fernco 1000 RC Series & 5000 RC Series couplings offer the ability to connect all common drain pipes in any combination of size and material.

## Meets requirements of:

- **ASTM C 1173** - Standard Specification for Flexible Transition Couplings for Underground Piping Systems
- **ASTM D 5926** - Standard Specification for Poly Vinyl Chloride (PVC) Gaskets for Drain, Waste, and Vent (DWV), Sewer, Sanitary, and Storm Plumbing Systems
- **CSA B602** - Mechanical couplings for drain, waste, vent pipe and sewer pipe



# Fernco<sup>®</sup>

Inc.

United States  
PH: 810-653-9626  
FX: 810-653-8714

[www.fernco.com](http://www.fernco.com)

Canada  
PH: 519-332-6711  
FX: 519-332-8610 MFO

### 1001 & 5001 RC Series - Clay to Clay

1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
1001-44RC	5001-44RC	5.29	134	5.29	134	4.10	104			
1001-44WCRC	5001-44WCRC	5.51	140	5.51	140	3.97	101			
1001-64RC*	5001-64RC	7.50	191	5.50	140	6.02	153			
1001-66RC	5001-66RC	7.50	191	7.50	191	6.02	153			
1001-66WCRC	5001-66WCRC	8.00	203	8.00	203	6.00	152			
1001-88RC	5001-88RC	9.65	245	9.65	245	5.99	152			
1001-88WCRC	5001-88WCRC	10.00	254	10.00	254	6.00	152			
1001-1010RC	5001-1010RC	12.40	315	12.40	315	5.90	150			
1001-1010WCRC	5001-1010WCRC	12.40	315	12.40	315	5.90	150			
1001-1212RC	5001-1212RC	14.51	369	14.51	369	6.38	162			
1001-1212WCRC	N/A	15.25	387	15.25	387	6.42	163			
1001-1515RC	5001-1515RC	18.14	461	18.14	461	9.89	251			
001-1818RC	5001-1818RC	21.90	556	21.90	556	9.63	245			
001-2424RC	N/A	28.97	736	28.97	736	9.89	251			

### 1002 & 5002 RC Series - Clay to Cast Iron or Plastic

1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
002-43RC*	5002-44RC	5.29	134	3.38	86	4.10	104			
002-44RC	5002-44WCRC	5.36	136	4.51	115	4.07	103			
002-44WCRC	N/A	5.44	138	4.55	116	3.96	101			
002-46RC*	5002-46RC	5.13	130	6.60	168	5.74	146			
002-55RC*	5002-55RC	6.60	168	5.50	140	5.74	146			
002-64RC*	5002-64RC	7.50	191	4.50	114	6.02	153			
002-64WCRC*	5002-64WCRC	8.00	203	4.50	116	6.00	152			
002-64WCRC-SDR*	5002-66RC	8.00	203	4.38	111	6.00	152			
002-66RC	5002-66WCRC	7.50	191	6.56	167	5.89	150			
002-66WCRC	5002-86RC	8.04	204	6.38	162	5.91	150			
002-88RC	5002-88RC	9.76	248	8.57	218	5.96	151			
002-88WCRC	5002-88WCRC	10.00	254	8.66	220	6.00	152			
002-1010RC*	5002-1010RC	12.40	315	10.75	273	5.90	150			
002-1010WCRC*	5002-1010WCRC	12.40	315	10.75	273	5.90	150			
002-1210RC*	N/A	14.51	369	10.60	269	6.00	152			
002-1212RC*	5002-1212RC	14.51	369	12.60	320	6.38	162			
002-1212WCRC*	N/A	15.25	387	12.60	320	6.42	163			
002-1215RC*	N/A	14.38	365	15.25	387	6.42	163			
002-1515RC*	5002-1515RC	18.14	461	15.40	391	9.89	251			
002-1818RC*	5002-1818RC	21.90	556	19.00	483	9.63	245			
002-2121RC*	N/A	25.46	647	22.30	566	9.89	251			
002-2424RC*	N/A	28.97	736	25.00	635	9.89	251			

### 1003 & 5003 RC Series - Clay to AC or Ductile Iron

1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
003-44RC	5003-44RC	5.41	137	4.94	125	4.07	103			
003-66RC	5003-66RC	7.25	184	6.84	174	5.93	151			
003-66WCRC*	N/A	8.00	203	6.80	173	6.00	152			
003-68RC*	N/A	7.20	183	9.05	230	5.98	152			
003-8-10RC*	N/A	9.65	245	11.22	285	5.97	152			
003-88RC	5003-88RC	9.75	248	9.06	230	5.94	151			
003-1010RC*	N/A	12.40	315	11.12	282	5.90	150			
003-1212RC*	5003-1212RC	14.51	369	13.20	335	6.38	162			
003-1515RC*	5003-1516RC	18.10	460	18.10	460	9.89	251			
003-1818RC*	N/A	21.90	556	19.50	495	9.63	245			

### 1004 & 5004 RC Series - Concrete to Concrete

1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
004-44RC	5004-44RC	5.51	140	5.51	140	3.97	101			
004-66RC	5004-66RC	7.58	193	7.58	193	5.94	151			

1004-1010RC	5004-1010RC	12.40	315	12.40	315	5.90	150			
1004-1212RC	5004-1212RC	15.25	387	15.25	387	6.42	163			
N/A	5004-1212LCRC	15.25	387	15.25	387	6.42	163			
1004-1515RC	N/A	19.74	501	19.74	501	9.89	251			

### 1006 & 5006 RC Series - Concrete to Cast Iron or Plastic

1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
1006-44RC*	5006-44RC	5.64	143	4.51	115	3.97	101			
1006-64RC*	N/A	7.58	193	4.38	111	5.94	151			
1006-66RC*	5006-66RC	7.63	194	6.63	168	5.94	151			
1006-86RC*	N/A	10.38	264	6.38	162	5.90	150			
1006-88RC*	5006-88RC	10.49	266	8.63	219	5.90	150			
1006-1010RC*	5006-1010RC	12.40	315	10.75	273	5.90	150			
1006-1212RC*	5006-1212RC	15.25	387	12.60	320	6.42	163			
1006-1515RC*	N/A	19.74	501	15.40	391	9.89	251			

### 1051 & 5051 RC Series - AC or Ductile Iron to Cast Iron or Plastic

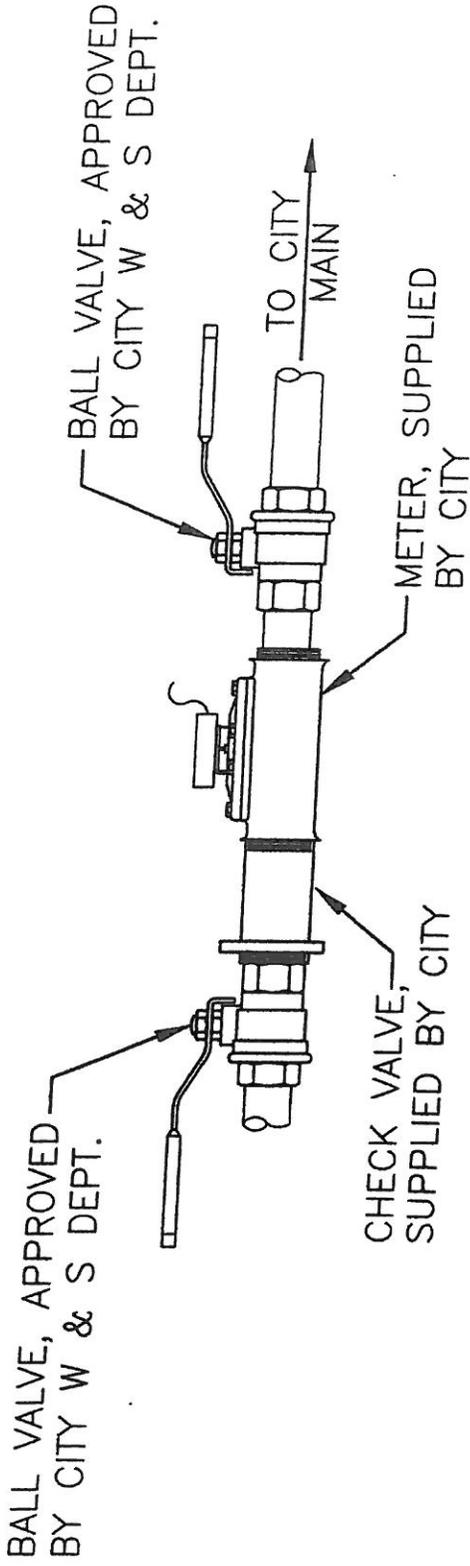
1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
1051-44RC	5051-44RC	4.80	122	4.39	112	3.94	100			
1051-45RC*	N/A	5.00	127	5.52	140	3.97	101			
1051-46RC*	5051-46RC	4.75	121	6.60	168	5.74	146			
1051-55RC*	N/A	5.90	150	5.50	140	5.92	150			
1051-64RC*	5051-64RC	6.95	177	4.38	111	5.92	150			
1051-65RC*	N/A	6.95	177	5.50	140	5.92	150			
1051-66RC	5051-66RC	6.69	177	6.69	170	5.91	150			
1051-8-10RC*	N/A	9.05	230	10.63	270	5.89	150			
1051-88RC	5051-88RC	9.25	235	8.51	216	5.97	152			
1051-10-8RC*	N/A	11.02	280	8.38	213	5.97	152			
N/A	5051-1010RC	11.02	280	10.52	267	5.85	148			
1051-1212RC*	5051-1212RC	13.37	340	12.60	320	5.97	152			
N/A	5051-1615RC	18.14	461	15.40	391	9.89	251			
1051-1818RC	N/A	19.74	501	19.74	501	9.89	251			

### 1055 & 5055 RC Series - AC or Ductile Iron to AC or Ductile Iron

1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
1055-44RC	5055-44RC	4.75	121	4.75	121	3.96	101			
1055-66RC	5055-66RC	6.65	169	6.65	169	5.92	150			
1055-88RC	5055-88RC	9.05	230	9.05	230	5.98	152			
1055-1212RC	5055-1212RC	13.37	340	13.37	340	5.97	152			

### 1056 RC Series - Cast Iron, Plastic, Copper, Steel or Lead

1000 RC SERIES	5000 RC SERIES	A	in	mm	B	in	mm	C	in	mm
1056-150RC	N/A	1.94	49	1.94	49	3.43	87			
1056-22RC	N/A	2.41	61	2.41	61	3.45	88			
1056-32RC*	N/A	3.52	89	2.38	60	3.96	101			
1056-33RC	N/A	3.46	88	3.46	88	3.98	101			
1056-43RC*	5056-43RC	4.58	116	3.38	86	4.02	102			
1056-44RC	5056-44RC	4.58	116	4.58	116	4.02	102			
1056-54RC*	5056-54RC	5.52	140	4.38	111	3.97	101			
1056-55RC	5056-55RC	5.52	140	5.52	140	3.97	101			
1056-64RC*	5056-64RC	6.60	168	4.50	114	5.74	146			
1056-65RC*	N/A	6.60	168	5.62	143	5.74	146			
1056-66RC	5056-66RC	6.60	168	6.60	168	5.74	146			
1056-86RC*	N/A	8.64	219	6.63	162	6.04	153			
1056-88RC	5056-88RC	8.64	219	8.64	219	6.04	153			
1056-1010RC	5056-1010RC	10.63	270	10.63	270	5.89	150			
1056-1212RC	5056-1212RC	12.52	318	12.52	318	6.32	161			
1056-1515RC	5056-1515RC	15.92	404	15.92	404	9.89	251			
1056-1818RC	5056-1818RC	19.10	485	19.10	485	9.89	251			



# WATER METER CONFIGURATION

N.T.S.

DRAWING ISSUE
PRELIMINARY DRAWINGS
PROGRESS DRAWING
ISSUED FOR DESIGN
ISSUED FOR PERMIT
ISSUED FOR CONSTRUCTION



**CITY OF HIGHLAND**  
PUBLIC WORKS DEPARTMENT

SHEET - TITLE  
WATER METER CONFIGURATION

**TYPICAL WATER METER CONFIGURATION**

DESIGNED BY RP	JOB NO.
DRAWN BY JD	SHEET NO.
CHECKED BY JC	1 of 1
DATE 9/29/09	



ORDINANCE NO. 2683

AMENDING MULTIPLE SECTIONS OF ARTICLE II "EXCAVATIONS"  
OF CHAPTER 62, "STREETS, SIDEWALKS AND OTHER PUBLIC PLACES,"  
OF THE *CODE OF ORDINANCES, CITY OF HIGHLAND, ILLINOIS*

WHEREAS, the Director of Public Works has recommended to the City Council that Article II "Excavations," of Chapter 62, "Streets, Sidewalks and Other Public Places," of the *Code of Ordinances, City of Highland, Illinois*, be amended to update, to streamline, and to clarify the procedure for a private contractor's obtaining a permit to excavate, and then excavating, in, under, across, or upon any street, sidewalk, or other public property of the City of Highland;

WHEREAS, the Director of Public Works has submitted to the City Council proposed amendments to multiple sections of Article II "Excavations," of Chapter 62, "Streets, Sidewalks and Other Public Places," of the *Code of Ordinances, City of Highland, Illinois*,

WHEREAS, the City Council finds that the proposed amendments to multiple sections of Article II "Excavations," of Chapter 62, "Streets, Sidewalks and Other Public Places," would serve the public interest and, so, should be adopted.

NOW, THEREFORE, BE IT ORDAINED, by the City Council of the City of Highland, Illinois, as follows:

*Section 1.* The foregoing recitals are incorporated herein as findings of the City Council of the City of Highland.

*Section 2.* Article II "Excavations," of Chapter 62, "Streets, Sidewalks and Other Public Places," of the *Code of Ordinances, City of Highland, Illinois*, is amended to read as follows:

**"Sec. 62-26. – Permit required for the performance of excavating work.**

(a) Definitions.

(1) *Excavating work.* Digging in, opening up, removing pavement or soil from, boring under, or tunneling in, across, under or through, any street, alley, sidewalk, waterway, or other public property of the City of Highland.

(2) *Permit.* Refers to the form used to document the excavation and the authorization to perform excavations within City of Highland rights-of-way. Easements are excluded.

(b) Permit required for excavating. The performance of excavating work by any person or entity (other than a city employee acting within the course and scope of his employment or a contractor discharging the obligations of his contract with the City of Highland) without a permit is prohibited. A city employee may perform excavating work, in the course and scope of his employment, without a permit. A contractor discharging the obligations of his contract with the City of Highland may also perform excavating work without a permit. (For the requirement in an emergency, *see* section 62-30 below.)

**Sec. 62-27. - Application for permit.**

An application for a permit for the performance of excavating work shall be made to the city manager, or his delegate, at least 24 hours before commencing excavating work. The application shall state the following:

- (1) The name and address of the applicant;
- (2) The place (or places) of the proposed excavating work;
- (3) The purpose, approximate size, and anticipated duration of the project;
- (4) Such other information as may be reasonably necessary or desirable and as specified on the application form.

**Sec. 62-28. - Payment of fees.**

- (a) The applicant for a permit, prior to issuance of a permit, shall both –
  - (1) Pay to the city whichever of the following fees is applicable:
    - a. \$20.00 flat fee.
    - b. For excavating work that (1) is in, on, or under paved streets, paved alleys, paved gutters, or paved waterways *and* (2) disturbs the paved surface thereof, \$20.00 per square yard disturbed.
    - c. For excavating work that is in, on, or under sidewalks, \$10.00 per square yard of sidewalks involved; and,
- (b) If the city determines during, or after the permit holder's completion of, the excavating work, that – because of the distances involved or surface areas disturbed – the permit holder should have calculated and paid a higher fee in submitting the application, the city shall notify the permit holder of the difference between (a) the amount that the permit holder should have paid and (b) the amount which the permit holder actually paid, and the permit holder shall pay that difference promptly,

**Sec. 62-29. - Emergencies.**

If the nature of the situation that exists is an emergency that reasonably requires that excavating work be done immediately or be done prior to the time when the applicant or other person can comply with this article, such applicant or other person may proceed to commence the activity and – on the next day that the city office is open for business, after the need arises – shall complete the application for a permit as is applicable and shall pay the applicable fee(s).

**Sec. 62-30. - Conditions of permit.**

Any permit issued shall provide that the permit holder shall do all the following things:

- (1) Complete the project expeditiously and within the time specified in the permit.

(2) Prior to commencement of work, furnish the city a certificate of insurance, naming the city as an additional insured, as satisfactory evidence in writing that the applicant has in effect and will keep in effect worker's compensation of not less than \$500,000 per claim, comprehensive general liability of not less than \$2,000,000 per claim for bodily injury liability, not less than \$1,000,000 per claim for property damage liability, and professional liability insurance coverage of at least \$500,000, issued by an insurance company authorized to do business in the State of Illinois; and the policy shall have coverages applicable to the liability risks involved, including but not limited to, subsurface coverage.

(3) Restore the area disturbed to pre-excitation conditions and carry out the project in accordance with such other terms and conditions as are specified in the permit or in city specifications or ordinances.

(4) All open excavations shall be protected with barricades and caution tape sufficient to prohibit pedestrians and vehicles from entering the work area. Proper signage shall be erected to warn the public of construction work ahead. Proper traffic control shall be maintained at all times until the excavation work is completed and conditions returned to normal. The City will not provide traffic control or assume responsibility for its installation and maintenance. No excavation shall remain open for more than 48 hours. Any street closures, partial or full, requires notification to the Police Department (654-2131) prior to closure.

(5) All excavations shall conform to the latest OSHA standards for safety.

(6) City personnel have the right to halt work for safety violations until the safety violations are corrected by the permit holder.

(7) J.U.L.I.E. locates are required for all excavations and must be completed before digging.

**Sec. 62-31. - Unlawful actions.**

(a) It shall be unlawful to carry out any project for which a permit is granted pursuant to this article in a manner contrary to the terms and conditions of such permit or city specifications, or to fail to meet the requirements of section 62-30 (if an emergency exists), or to violate any written stop-work order issued pursuant to this section.

(b) If the city manager determines upon investigation that the terms and conditions of such permit or city specifications or section 62-30 have been violated, he shall notify the permit holder or person undertaking emergency action in writing of the violation, and he may require that the violation be corrected within a reasonable time. If such notice is not complied with, the city manager may stop the project with a written stop-work order and take such other action as is necessary to protect public safety and to enforce compliance

**Sec. 62-32. - Violation and penalty.**

Violation of section 62-26 and section 62-32 shall be punishable by a fine of not less than \$100.00 nor more than the maximum fine allowed by section 1-13 of the *Code of Ordinances, City of Highland, Illinois*.

**Secs. 62-33—62-55. - Reserved.”**

Section 3. This ordinance shall be effective upon its passage, approval, and publication in pamphlet form in accordance with law.

Passed by the City Council of the City of Highland, Illinois, approved by the Mayor, and deposited and filed in the Office of the City Clerk, on the 15<sup>th</sup> day of June, 2015, the vote being taken by ayes and noes, and entered upon the legislative records, as follows:

AYES: Frey, Bellm, Nicolaides

NOES: None

ABSENT: Schwarz



ATTEST:

Barbara Bellm  
City Clerk, City of Highland  
Madison County, Illinois

APPROVED:

Joseph R. Michaelis  
Mayor, City of Highland  
Madison County, Illinois